

Substitute for form 1449A/PTO (modified)

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Page 1 of 15

JUN 10 2004

Application Number	10/740262
Filing Date	December 18, 2003
First Named Inventor	Rosenflanz, Anatoly Z.
Art Unit	1755
Examiner Name	
Attorney Case Number	58716US002

**U.S. Patent Documents**

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
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	A2	US- 906,339	12/08/1908	Tone	
	A3	US- 960,712	08/07/1910	Saunders	
	A4	US- 1,037,999	09/10/1912	Saunders	
	A5	US- 1,107,011	08/11/1914	Allen	
	A6	US- 1,149,064	08/03/1915	Kalmus	
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	A11	US- 1,257,356	02/26/1918	Hutchins	
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	A18	US- 1,339,344	05/04/1920	Hutchins	
	A19	US- 1,402,714	01/03/1922	Brockbank	
	A20	US- 1,448,586	03/13/1923	Allen	
	A21	US- 1,910,444	05/23/1933	Nicholson	
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✓	A27	US- 3,041,156	06/26/1962	Rowse et al.	
/MM/	A28	US- 3,141,747	07/21/1964	Marshall	

\*Examiner: /Michael Marcheschi/ (04/25/2007)

Date Considered:

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Information Disclosure Statement — PTO-1449 (Modified)

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<b>Substitute for form 1449A/PTO (modified)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 2 of 15	<b>Application Number</b>	10/740262
	<b>Filing Date</b>	December 18, 2003
	<b>First Named Inventor</b>	Rosenflanz, Anatoly Z.
	<b>Art Unit</b>	1755
	<b>Examiner Name</b>	
	<b>Attorney Case Number</b>	58716US002

U.S. Patent Documents					
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		Doc. Number (Kind Code if Known)			
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	A30	US- 3,181,939	05/04/1965	Marshall et al.	
	A31	US- 3,216,794	11/09/1965	Roschuk	
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	A33	US- 3,498,769	03/03/1970	Coes, Jr.	
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	A47	US- 4,035,162	07/12/1977	Brothers et al.	
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<b>*Examiner:</b> /Michael Marcheschi/ (04/25/2007)	<b>Date Considered:</b>
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	<b>Attorney Case Number</b>	<b>58716US002</b>

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	A58	US- 4,261,706	04/14/1981	Blanding et al.	
	A59	US- 4,311,489	01/19/1982	Kressner	
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/MM/	A84	US- 4,799,939	01/24/1989	Bloecher et al.	

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	<b>Attorney Case Number</b>	58716US002

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		Doc. Number-(Kind Code if Known)			
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	A86	US- 4,881,951	11/21/1989	Wood et al.	
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V	A111	US- 5,203,884	04/20/1993	Buchanan et al.	
/MM/	A112	US- 5,203,886	04/20/1993	Sheldon et al.	

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Application Number

10/740262

Filing Date

December 18, 2003

First Named Inventor

Rosenflanz, Anatoly Z.

Art Unit

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		Doc. Number-(Kind Code if Known)			
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/MM/	A140	US- 5,609,706	03/11/1997	Benedict et al.	

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Application Number	10/740262
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	B14	EP	0 647 601 A1 ✓	04/12/1995			
	B15	EP	0 709 347 ✓	05/01/1996			
	B16	EP	0 722 919 A1 ✓	07/24/1996			
	B17	FR	1547 989 ✓	10/21/1968			X
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	B19	GB	1 121 875 ✓	07/31/1968			
	B20	GB	1 260 933 A ✓	01/19/1972			
	B21	JP	200045128A ✓	02/15/2000			X Machine
	B22	JP	200045129A ✓	02/15/2000			X Machine
↓	B23	JP	06 040765A ✓	2/15/1994			X Machine
/MM/	B24	JP	59 22 7726A ✓	12/21/1984			X Machine

\*Examiner: /Michael Marcheschi/ (04/25/2007)

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Information Disclosure Statement — PTO-1449 (Modified)

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Substitute for form 1449A/PTO (modified)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 9 of 15	<b>Application Number</b>	<b>10/740262</b>
	<b>Filing Date</b>	<b>December 18, 2003</b>
	<b>First Named Inventor</b>	<b>Rosenflanz, Anatoly Z.</b>
	<b>Art Unit</b>	<b>1755</b>
	<b>Examiner Name</b>	
	<b>Attorney Case Number</b>	<b>58716US002</b>

Foreign Patent Documents							
Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-Kind Code (if known)				
/MM/	B25	JP	2001294480 ✓	10/23/2001			X Machine
	B26	Hei	11-189926 ✓	07/13/1999			X Machine
	B27	Hei	4-119941 ✓	04/21/1992			X
	B28	S	63-156024 ✓	06/29/1988			X
	B29	S	63-303821	12/28/1988			X
	B30	WO	94/14722 ✓	07/07/1994			
	B31	WO	97/16385 ✓	05/09/1997			
	B32	WO	97/25284 ✓	07/19/1997			
	B33	WO	00/34201 ✓	06/15/2000			X
	B34	WO	01/16047 A2 ✓	03/08/2001			
	B35	WO	01/23321 A1 ✓	04/05/2001			
	B36	WO	01/23323 A1 ✓	04/05/2001			
	B37	WO	01/27046 A1 ✓	04/19/2001			
	B38	WO	01/56946 A ✓	08/09/2001			
	B39	WO	01/56947 A ✓	08/09/2001			
	B40	WO	01/56949 A ✓	08/09/2001			
	B41	WO	01/56950 A ✓	08/09/2001			
✓	B42	WO	02/08146 A ✓	01/31/2002			
/MM/	B43	SU	1455569 ✓	10/04/1996			X

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
/MM/	C1	Aguilar, E.A., "Processing and crystallization of rapidly solidified Al <sub>2</sub> O <sub>3</sub> -Y <sub>2</sub> O <sub>3</sub> fibres", British Ceramic Transactions, 2000, Vol. 99, No. 6, pp. 256-259.
/MM/	C2	Brewer, Luke N. et al., "Interface modification for increased fracture toughness in reaction-formed yttrium aluminum garnet/alumina eutectic composites," 1999, Vol. 14, No. 10, pp. 3907-3912.
/MM/	C3	Brockway et al. "Rapid Solidification of Ceramics a Technology Assessment", Metals and Ceramics Information Center, MCIC Report, January 1984 MCIC 84-49

<b>*Examiner:</b> /Michael Marcheschi/ (04/25/2007)	<b>Date Considered:</b>
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<b>Substitute for form 1449/A/PTO (modified)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 10 of 15	<b>Application Number</b>	<b>10/740262</b>
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/MM/	C4	Chen, Zan-Hwey et al., "Microstructures of laser-treated Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> -CeO <sub>2</sub> composites," <u>Materials Science &amp; Engineering A (Structural Materials: Properties, Microstructure and Processing)</u> , 1995, Vol. A196, No. 1-2, pp. 253-260.
	C5	"China: Oversupply Puts Rare Earths Projects On Hold", Industrial Minerals, August, 1997, 1 page.
	C6	"China's Rare Earth Export Quota Set at 45,000 Tons", Dow Jones Interactive Internet Printout on 6/20/01 for web address "http://ptg.djnr.com/ccroot/asp/publib/story.asp"; Asia Pulse, 1/9/01, 1 page.
	C7	"China's Rare Earth Industry In the Doldrums", Dow Jones Interactive Internet Printout on 6/20/01 for web address "http://ptg.djnr.com/ccroot/asp/publib/story.asp"; Asia Pulse, 1/28/99, 2 pages.
	C8	"China Rare Earth Information", China Rare Earth Information Center, Vol. 6, No. 4, August 2000, 3 pages.
	C9	Coutures et al., "PRODUCTION AND STUDIES OF ALUMINA BASED REFRACTORY GLASS," <u>Mat. Res. Bull.</u> , Vol. 10, No. 6, 1975, pp 539-546.
	C10	Dialog © file 319: Chem Bus NewsBase © 2001 Royal Soc Chemistry. Abstract for "China: Oversupply Puts Rare Earths Projects On Hold", Industrial Minerals n 359, p. 10.
	C11	"ELEMENTS: China to Impose Quotas on Rare Earth Exports", Dow Jones Interactive Internet Printout on 6/20/01 for web address "http://ptg.djnr.com/ccroot/asp/publib/story.asp"; Chemical Business NewsBase, 2/4/99, 1 page.
	C12	Figs. 311, 346, 350, 354-56, 373, and 716, <u>Phase Diagrams For Ceramists</u> , The American Ceramic Society, 1964, pp. 122, 136, 138, 140, 144, 248.
	C13	Figs. 2340-44, 2363, 2370, 2374-75, 2382-83, 2385, 2387, 2390, and 2392, <u>Phase Diagrams For Ceramists, 1969 Supplement</u> , The American Ceramic Society, 1969, pp. 95-6, 100, 102-03, 105-08.
	C14	Figs. 4366-71, 4377-78, 4404-05, 4417, 4426, 4430, 4433, 4437, 4440, 4444, 4457, 4572, and 4602, <u>Phase Diagrams For Ceramists, 1975 Supplement</u> , The American Ceramic Society, 1975, pp. 130-32, 135-36, 147, 152, 157, 159-60, 163-64, 166, 172-73, 238, 257.
	C15	Figs. 5042, 5211, 5217, 5224, 5228, 5232, 5237, 5239, 5241, 5245, 5251, 5257, 5418, and 5437, <u>Phase Diagrams For Ceramists, Vol. IV</u> , The American Ceramic Society, 1981, pp. 29, 125, 127, 129-31, 133, 135-37, 139, 141, 143, 220, 228.
	C16	Fig. 6464, <u>Phase Diagrams For Ceramists, Vol. VI</u> , The American Ceramic Society, 1981, p. 162.
	C17	Figs. 9262, and 9264, <u>Phase Diagrams For Ceramists, Vol. XI, Oxides</u> , The American Ceramic Society, 1985, pp. 105-08.
	C18	Harris et al., "DURABLE 3—5 μm TRANSMITTING INFRARED WINDOW MATERIALS," <u>Infrared Physics &amp; Technology</u> 39, 1998, pp. 185-201
✓	C19	Hedrick, J., "Rare-Earth Metals", pp. 61.1-61.6, 1997.
/MM/	C20	Hedrick, J., "Rare-Earth Metal Prices in the USA ca. 1960 to 1994", <u>J. Alloys and Compounds</u> , 1997, pp. 471-81.

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Substitute for form 1449A/PTO (modified)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 11 of 15	Application Number	10/740262
	Filing Date	December 18, 2003
	First Named Inventor	Rosenflanz, Anatoly Z.
	Art Unit	1755
	Examiner Name	
	Attorney Case Number	58716US002

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
/MM/	C21	Hrovat et al., "Preliminary data on subsolidus phase equilibria in the $\text{La}_2\text{O}_3\text{-Al}_2\text{O}_3\text{-Mn}_2\text{O}_3$ and $\text{La}_2\text{O}_3\text{-Al}_2\text{O}_3\text{-Fe}_2\text{O}_3$ systems", <u>Journal of Materials Science Letters</u> , Vol. 14, 1995, pp. 265-267.
	C22	Imakoa, Minoru et al., "Refractive Index and Abbe's Number of Glass of Lanthanum Borate System", <u>Journal Ceramic Assoc. Japan</u> , Vol. 70, No. 5, (1962), pp. 115
	C23	"In Asia", Dow Jones Interactive Internet Printout on 6/20/01 for web address "http://ptg.djnr.com/ccroot/asp/publib/story.asp"; <u>Engineering &amp; Mining Journal</u> , 2/28/00, 4 pages.
	C24	Isobe, T. et al., "Microstructure and Thermal Stability of $\text{Al}_2\text{O}_3/\text{Y}_3\text{Al}_5\text{O}_{12}$ (YAG) Eutectic Composite Prepared by an Arc Discharge Method", <u>J. Ceram. Soc. Jap.</u> , 109, [1], 2001, pp. 66-70, Abstract in English.
	C25	Kingery, W.D., INTRODUCTION TO CERAMICS, Second Edition, Chpt. III subchapter 8.8, <u>Glass-Ceramic Materials</u> , pp. 368-374, (1976).
	C26	Kokubo, Tadashi et al., "Infrared Transmission of $(\text{R}_2\text{O}$ or $\text{R}'\text{O})\text{-(TiO}_2, \text{Nb}_2\text{O}_5 \text{ or } \text{Ta}_2\text{O}_5)\text{-Al}_2\text{O}_3$ Glasses", <u>Journal of Non-Crystalline Solids</u> 22 (1970) 125-134
	C27	Kondrashov V I et al., "Opacified Glass "Decorit" Synthesis Directions", <u>Steklo I Keramika</u> 2001, No. 1, pages 8-11. Title translated by Keramika as "Aspects of Synthesis of Decorite Opacified Glass".
	C28	Krell, Andreas et al., "Advances in the Grinding Efficiency of Sintered Alumina Abrasives," <u>Journal of the American Ceramic Society</u> , 1996, Vol. 79, No. 3, pp. 763-769
	C29	Krokhin et al., "Synthesis of Y-Al Garnet", <u>Glass and Ceramics</u> , Vol. 55, Nos. 5-6, 1998, pp. 151-152.
	C30	Lakiza et al., "The Liquidus Surface In The $\text{Al}_2\text{O}_3\text{-ZrO}_2\text{-Y}_2\text{O}_3$ Phase Diagram", <u>Powder Metallurgy and Metal Ceramics</u> , Vol. 33, No. 11-12, 1994, pp. 595-597.
	C31	Lakiza et al., "Methods Of Investigation Of Properties Of Powder Materials, Interactions In The $\text{Al}_2\text{O}_3\text{-ZrO}_2\text{-Y}_2\text{O}_3$ System", <u>Powder Metallurgy and Metal Ceramics</u> , Vol. 33, Nos. 9-10, 1994, pp. 486-490.
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	C35	Mah, Tai-I1 et al., "Processing, Microstructure, and Strength of Alumina-YAG Eutectic Polycrystals", <u>J. Am. Ceram. Soc.</u> , 83, [8], 2000, pp. 2088-90.
✓	C36	McKittrick, Joanna, et al., "Non-stoichiometry and defect structures in rapidly solidified $\text{MgO-Al}_2\text{O}_3\text{-ZrO}_2$ ternary eutectics," <u>Materials Science and Engineering A231</u> (1997) 90-97.
/MM/	C37	McMillan, P.W., <u>Glass-Ceramics</u> , Academic Press, Inc., 2 <sup>nd</sup> Edition (1979)

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Substitute for form 1449/PTO (modified)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 12 of 15	Application Number	10/740262
	Filing Date	December 18, 2003
	First Named Inventor	Rosenflanz, Anatoly Z.
	Art Unit	1755
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OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
/MM/	C38	"Phase Identification of $Al_2O_3/RE_3Al_5O_{12}$ and $Al_2O_3/REA10_3$ (RE = Sm-Lu, Y) Eutectics", J. Crystal Growth, 218, 2000, pp. 67-73.
	C39	"Prices: Minerals", Asian Ceramics & Glass, Jan. 2001, 2 pages.
	C40	"Rare Earths: An Industry Review and Market Outlook – Part 1", Dow Jones Interactive Internet Printout on 6/20/01 for web address "http://ptg.djnr.com/ccroot/asp/publib/story.asp"; Chemical Business NewsBase, 12/8/00, 2 pages.
	C41	"Rare Earth – Market Confusion Inevitable Due to China's Unstable Supply", Japan Chemical Week, Vol. 41, No. 2080, July 6, 2000, pp. 6-7.
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	C43	Rodriquez, Louise, "Rare Earths Prices Recover Despite China's Overcapacity", America Metal Market, Vol. 109, No. 14, Jan. 22, 2001, p. 13.
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	C45	Stankus, S. V. et al., "Crystallization and Thermal Properties of $Al_2O_3$ - $Y_2O_3$ Melts", J. Crystal Growth, 167, 1996, pp. 165-70.
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	C50	Varshneya, Arun K., "Fundamentals of Inorganic Glasses", pp. 425-427 (1994).
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/MM/	C54	Waku, Yoshiharu, "A New Ceramic Eutectic Composite with High Strength at 1873 K", <u>Advanced Materials</u> , Vol. 10, No. 8, 1998, pp. 615-617.
	C55	Waku et al., "High-temperature strength and thermal stability of a unidirectionally solidified Al <sub>2</sub> O <sub>3</sub> /YAG eutectic composite", pp. 1217-1225
	C56	Waku et al., "Sapphire matrix composites reinforced with single crystal YAG phases", <u>Journal of Materials Science</u> , Vol. 31, 1996, pp. 4663-4670.
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✓	C67	Yang and Zhu, "Thermo-Mechanical Stability Of Directionally Solidified Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> (Y <sub>2</sub> O <sub>3</sub> ) Eutectic Fibers", <u>Scripta Materialia</u> , Vol. 36, No. 8, 1997, pp. 961-965.
/MM/	C68	Yau, W., "Increase in Value of Rare Earth Products Boosts Yixing Xinwei", <u>South China Morning Post</u> , April 12, 2000, 2 pages.

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/MM/	C69	U.S. Patent Application entitled "Fused $\text{Al}_2\text{O}_3\text{-Y}_2\text{O}_3\text{-ZrO}_2$ Eutectic Abrasive Particles, Abrasive Articles, And Methods Of Making And Using The Same", filed July 19, 2000, Rosenflanz having U.S. Serial No. 09/618,876 (Attorney Docket No. 55763US002). ✓
	C70	U.S. Patent Application entitled, "Method of Making Ceramic Articles", filed August 2, 2002, Rosenflanz having U.S. Serial No. 10/211,481 (Attorney Docket No. 56938US004). ✓
	C71	U.S. Patent Application entitled "Methods of Making Ceramic Particles," filed February 5, 2003, Rosenflanz, having a U.S. Serial No. 10/358772 (Attorney Docket No. 58257US002) ✓
	C72	U.S. Patent Application entitled "Methods of Making Ceramics", filed February 5, 2003, Anderson et al., having a U.S. Serial No. 10/358765 (Attorney Docket No. 58258US002) ✓
	C73	U.S. Patent Application entitled "Ceramics and Methods of Making the Same", filed February 5, 2003, Celikkaya et al., having a U.S. Serial No. 10/358910 (Attorney Docket No. 58325US002) ✓
	C74	U.S. Patent Application entitled " $\text{Al}_2\text{O}_3\text{-La}_2\text{O}_3\text{-Y}_2\text{O}_3\text{-MgO}$ Ceramics, and Methods of Making the Same", filed February 5, 2003, Celikkaya et al., having a U.S. Serial No. 10/358855 (Attorney Docket No. 58352US002) ✓
	C75	U.S. Application entitled "Use of Ceramics In Dental And Orthodontic Applications", filed February 5, 2003, having U.S. Serial No. 10/358,856 (Attorney Docket No. 58350US002) ✓
	C76	U.S. Patent Application entitled "Methods of Making $\text{Al}_2\text{O}_3\text{-SiO}_2$ Ceramics", filed February 5, 2003, Celikkaya et al. having a U.S. Serial No. 10/358,708 (Attorney Docket No. 58353US002) ✓
	C77	U.S. Application entitled "Use of Glasses Containing Rare Earth Oxide, Alumina, and Zirconia And Dopant In Optical Waveguides", filed April 28, 2003, having U.S. Serial No. 10/425,039 (Attorney Docket No. 58435US002) ✓
	C78	U.S. Application entitled "Methods of Making Ceramic Particles", filed September 5, 2003, having U.S. Serial No. 10/655729 (Attorney Docket No. 58790US002) ✓
	C79	U.S. Application entitled "Methods of Making Ceramics Comprising $\text{Al}_2\text{O}_3$ , REO, $\text{ZrO}_2$ and/or $\text{HfO}_2$ and $\text{Nb}_2\text{O}_5$ and/or $\text{Ta}_2\text{O}_5$ ", filed September 18, 2003, having U.S. Serial No. 10/666615 (Attorney Docket No. 58354US002) ✓
	C80	U.S. Application entitled "Ceramics Comprising $\text{Al}_2\text{O}_3$ , REO, $\text{ZrO}_2$ and/or $\text{HfO}_2$ , and $\text{Nb}_2\text{O}_5$ and/or $\text{Ta}_2\text{O}_5$ , and Methods of Making The Same", filed September 18, 2003, having U.S. Serial No. 10/666212 (Attorney Docket No. 58807US002) ✓
	C81	U.S. Application entitled "Ceramics Comprising $\text{Al}_2\text{O}_3$ , $\text{Y}_2\text{O}_3$ , $\text{ZrO}_2$ and/or $\text{HfO}_2$ , and $\text{Nb}_2\text{O}_5$ and/or $\text{Ta}_2\text{O}_5$ , and Methods of Making The Same", filed September 18, 2003, having U.S. Serial No. 10/666,098 (Attorney Docket No. 58961US002) ✓
✓	C82	U.S. Application entitled "Method of Making Abrasive Particles", filed December 18, 2003, having U.S. Serial No. 10/739420 (Attorney Docket No. 58794US002) ✓
/MM/	C83	U.S. Application entitled "Method of Making Abrasive Particles", filed December 18, 2003, having U.S. Serial No. 10/739624 (Attorney Docket No. 58796US002) ✓

<b>*Examiner:</b> /Michael Marcheschi/ (04/25/2007)	<b>Date Considered:</b>
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

<b>Substitute for form 1449/PTO (modified)</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 15 of 15	<b>Application Number</b>	<b>10/740262</b>
	<b>Filing Date</b>	<b>December 18, 2003</b>
	<b>First Named Inventor</b>	<b>Rosenflanz, Anatoly Z.</b>
	<b>Art Unit</b>	<b>1755</b>
	<b>Examiner Name</b>	
	<b>Attorney Case Number</b>	<b>58716US002</b>

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS		
Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published
/MM/	C84	U.S. Application entitled "Transparent Fused Crystalline Ceramics, And Method of Making The Same", filed December 18, 2003, having U.S. Serial No. 10/739439 (Attorney Docket No. 58797US002) ✓
/MM/	C85	U.S. Application entitled "Method of Making Abrasive Particles", filed December 18, 2003, having U.S. Serial No. 10/739440 (Attorney Docket No. 59437US002)
/MM/	C86	U.S. Application entitled "Method of Making Abrasive Particles", filed December 18, 2003, having U.S. Serial No. 10/740096 (Attorney Docket No. 59438US002)
/MM/	C87	U.S. Application entitled "Method of Making Abrasive Particles", filed December 18, 2003, having U.S. Serial No. 10/73944 (Attorney Docket No. 59439US002)
/MM/	C88	U.S. Application entitled "Powder Feeding Method and Apparatus", filed December 18, 2003, having U.S. Serial No. 10/739233 (Attorney Docket No. 59440US002)
/MM/	C89	U.S. Application entitled "Agglomerate Abrasive Grain and a Method of Making the Same", filed February 11, 2004, having U.S. Serial No. 10/776156 (Attorney Docket No. 55304US016)

<b>*Examiner:</b> /Michael Marcheschi/ (04/25/2007)	<b>Date Considered:</b>
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*Information Disclosure Statement — PTO-1449 (Modified)*

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Substitute for form 1449A/PTO (modified)

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Page 1 of 2

Application Number	10740262
Filing Date	December 18, 2003
First Named Inventor	Anderson, Thomas J.
Art Unit	1755
Examiner Name	
Attorney Case Number	58716US002

**U.S. Patent Documents**

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if known)			
/MM/	A1	US- 3,625,717	12/07/1971	Grubba et al.	
	A2	US- 4,316,964	02/23/1982	Lange	
	A3	US- 4,757,036	07/12/1988	Kaar et al.	
	A4	US- 5,248,318 A	09/28/1993	Tamamaki et al.	
	A5	US- 5,413,974 A	05/09/1995	Yokoyama et al.	
	A6	US- 5,449,389	09/12/1995	Yoshizumi et al.	
	A7	US- 5,516,348 A	05/14/1996	Conwell et al.	
	A8	US- 5,547,479 A	08/20/1996	Conwell et al.	
	A9	US- 5,645,619	07/08/1997	Erickson et al.	
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	A11	US- 5,721,188	02/24/1998	Sung et al.	
	A12	US- 5,856,254	01/05/1999	Feige et al.	
	A13	US- 6,053,956 A	04/25/2000	Wood	
	A14	US- 6,277,161 B1	08/21/2001	Castro et al.	
V	A15	US- 6,287,353	09/11/2001	Celikkaya	
/MM/	A16	US- 6,749,653 B2	06/15/2004	Castro et al.	

**Foreign Patent Documents**

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (if known)				
/MM/	B1	DE	141 420	04/30/1980			X
	B2	EP	0 227 374	07/01/1987			
	B3	EP	0 236 507	09/16/1987			
	B4	EP	0 666 238 B1	08/09/1995			
	B5	EP	0 666 239 B1	08/09/1995			
	B6	FR	2 118 026	07/28/1972			X
	B7	GB	793,503	04/16/1958			
V	B8	GB	1,005,338	09/22/1965			
/MM/	B9	GB	2 116 992	10/05/1983			

\*Examiner: /Michael Marcheschi/ (04/25/2007) Date Considered:

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Page 2 of 2

Application Number

10/740262

Filing Date

December 18, 2003

First Named Inventor

Anderson, Thomas J.

Art Unit

1755

Examiner Name

Attorney Case Number

58716US002

**Foreign Patent Documents**

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-Kind Code (if known)				
/MM/	B10	GB	2 377 438 A	01/15/2003			
/MM/	B11	JP	61099665	05/17/1986			Abstract
/MM/	B12	JP	05-085821	04/06/1993			X
/MM/	B13	JP	06-171974	06/21/1994			X
/MM/	B14	JP	62-003041	01/09/1987			X
/MM/	B15	JP	2003-94414	04/03/2003			X

**OTHER DOCUMENTS**

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
/MM/	C1	Aasland and McMillan, Nature 369, 633 (1994)	
	C2	Aguilar et al, "Melt Extraction Processing of Structural Y <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> Fibers", J. Eur. Ceram. Soc. 20 1091-1098 (2000)	
	C3	Gandhi, A.S. and Jarayam, V., "Pressure Consolidation of Amorphous ZrO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> by Plastic Deformation of Powder Particles", Acta Materialia, 50 (2002), 2137-2149	
	C4	Gonzalez, Eduardo J., et al., "High Pressure Compaction and Sintering of Nano-Size γ-Al <sub>2</sub> O <sub>3</sub> Powder", Materials and Manufacturing Processes Vol. 11, No. 6, 951-967, 1996	
	C5	Jantzen, C.M., Krepski, R.P., & Herman, H., "Ultra-Rapid Quenching of Laser-Method Binary and Unary Oxides", Mat. Res. Bull. 15, 1313-1326 (1980)	
	C6	Khor K.A., "Novel ZrO <sub>2</sub> -Mullite Composites Produced By Plasma Spraying", Proceedings of the 15 <sup>th</sup> International Thermal Pray Conference, 25-29 May 1998, Nice, France	
	C7	Ray, C.S. and Day, D.E., "Determining the Nucleation Rate Curve for Lithium Disilicate Glass by Differential Thermal Analysis", J. Am. Ceram. Soc. 73(2) 439-442 (1990)	
	C8	Schmucker, M, et al., "Constitution of Mullite Glasses Produced by Ultra-Rapid Quenching of Plasma-Sprayed Melts", Journal of the European Ceramic Society 15 (1995) 1201-1205	
	C9	Sarjeant, P.T. & Roy, R., in <i>Reactivity of Solids</i> (ed. J. W. Mitchell, R.C., DeVries, R.W., Roberts and P. Cannon) 725-33 (John Wiley & Sons, Inc., New York 1969)	
	C10	Takamori, T., & Roy, R., "Rapid Crystallization of SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Glasses", Journal of American Society, Vol. 56, No. 12, December 1973.	
↓	C11	Weber et al., "Synthesis and Optical Properties of Rare-Earth-Aluminum Oxide Glasses", J. Am. Ceram. Soc. 85(5) 1309-1311 (2002)	
/MM/	C12	Wilding, M.C., McMillan, P.F., "Polyamorphic Transitions in Ytria-Alumina Liquids", J. Non-Cryst. Solids. 293-295, 357-365 (2001)	

\*Examiner: /Michael Marcheschi/ (04/25/2007)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Page 1 of 1

Application Number	10/740262
Filing Date	December 18, 2003
First Named Inventor	Anderson, Thomas J.
Art Unit	1755
Examiner Name	
Attorney Case Number	58716US002

**U.S. Patent Documents**

Exam. Init.*	Cite No.	Document Number	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)			
/MM/	A1	US- 4,111,707	09/05/1978	Komorita et al.	
/MM/	A2	US- 4,789,501	12/06/1988	Day et al.	
/MM/	A3	US- 5,747,397	05/05/1998	McPherson et al.	
/MM/	A4	US- 6,251,813 B1	06/26/2001	Sato	
	A5	US-			
	A6	US-			
	A7	US-			
	A8	US-			

**Foreign Patent Documents**

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-KindCode (if known)				
/MM/	B1	JP	60221338	11/06/1985			Abstract
	B2						
	B3						

**OTHER DOCUMENTS**

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
	C1		

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Page 1 of 1

Application Number	10740262
Filing Date	December 18, 2003
First Named Inventor	Anderson, Thomas J.
Art Unit	1755
Examiner Name	
Attorney Case Number	58716US002

U.S. Patent Documents						
Exam. Init.*	Cite No.	Document Number		Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)				
/MM	A1	US- 3,714,059		01/30/1973	Shaw et al.	
	A2	US- 3,717,583		02/20/1973	Shaw et al.	
	A3	US- 3,928,603		12/16/1976	Plesslinger et al.	
	A4	US- 4,218,253		08/19/1980	Dworak et al.	
	A5	US- 4,467,767		08/28/1984	Kampichler et al.	
	A6	US- 4,829,031		05/09/1989	Roy et al.	
	A7	US- 4,950,294		08/21/1990	Hakamatsuka	
	A8	US- 5,164,348		11/17/1992	Wood	
	A9	US- 5,213,591		05/25/1993	Celikkaya et al.	
	A10	US- 5,484,752		01/16/1998	Waku et al.	
✓	A11	US- 5,569,547		10/29/1998	Waku et al.	
	A12	US- 5,682,082		10/28/1997	Wei et al.	
/MM	A13	US- 6,447,937		09/10/2002	Murakawa et al.	

Foreign Patent Documents							
Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
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/MM/	B1	JP	50025808	03/18/1975			X
/MM/	B2	FR	2538370	08/26/1984			X

OTHER DOCUMENTS			
Exam. Init.	Cite No.	include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
	C1		

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PAGE 4/42 \* RCVD AT 12/7/2004 5:06:46 PM [Eastern Standard Time] \* SVR:USPTO-EFXRF-1/1 \* DNS:8729306 \* CSID:612 738 7586 \* DURATION (mm-ss):09:48 (ent)

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Page 1 of 1

Application Number	10/740262
Filing Date	September 18, 2003
First Named Inventor	Anderson, Thomas J.
Art Unit	1765
Examiner Name	
Attorney Case Number	58716US002

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FEB 21 2005**U.S. Patent Documents**

Exam. Init.*	Cite No.	Document Number		Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)				
/MM/	A1	US- 4,182,437		01/08/1980	Roberts et al.	
/MM/	A2	US- 4,552,199		11/12/1985	Onoyama et al.	
/MM/	A3	US- 4,705,666		11/10/1987	Onoyama et al.	
/MM/	A4	US- 5,215,663		08/01/1993	LaCourse et al.	
	A5	US-				
	A6	US-				
	A7	US-				
	A8	US-				

**Foreign Patent Documents**

Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-Kind Code (if known)				
	B1						
	B2						
	B3						

**OTHER DOCUMENTS**

Exam. Init.*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation (Check if yes)
/MM/	C1	Standard: "Standard Specification for Wire Cloth and Sieves for Testing Purposes", ASTM International, Designation: E 11-01, (date unknown but prior to filing date of instant application), pp. 1-5.	
/MM/	C2	Standard: "Nominal Dimensions, Permissible Variations for Wire Cloth of Standard test Sieves (U.S.A.) Standard Series," ASTM International, Designation: E-11, (Date unknown but prior to filing date of instant application), pp.3-6.	
/MM/	C3	Standard: "Standard Specification for Industrial Woven Wire Cloth", ASTM International Designation: E 2018-99, (date unknown but prior to filing date of instant application), pp. 1-30	

\*Examiner: /Michael Marcheschi/ (04/25/2007)

Date Considered:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449A/PTO (modified)  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)  Page 1 of 1	Application Number	10740262
	Filing Date	September 18, 2003
	First Named Inventor	Anderson, Thomas J.
	Art Unit	1755
	Examiner Name	
	Attorney Case Number	58718US002

U.S. Patent Documents						
Exam. Init.*	Cite No.	Document Number		Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)				
/MM/	A1	US- 5,634,843		07/09/1998	Tsunoda et al.	
/MM/	A2	US- 5,876,274		11/02/1999	Inoue et al.	
/MM/	A3	US- 6,362,119 B1		03/26/2002	Chiba	
	A4	US-				
	A5	US-				
	A6	US-				
	A7	US-				
	A8	US-				

Foreign Patent Documents							
Exam. Init.*	Cite No.	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
		Ctry. Code	Number-Kind Code (if known)				
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	B3						

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	C1		
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	C3		

\*Examiner: /Michael Marcheschi/ (04/25/2007) Date Considered:

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**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

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Application Number	10/740262
Filing Date	December 18, 2003
First Named Inventor	Anderson, Thomas J.
Art Unit	1755
Examiner Name	Unknown
Attorney Case Number	58718US002

**U.S. Patent Documents**

Exam. Init.*	Cite No.	Document Number Doc. Number (Kind Code if known)	Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/MM	A1	US- 3,637,361	01-25-1972	Kita et al.	
	A2	US- 3,928,515	12-23-1975	Richmond et al.	
	A3	US- 4,217,264	08-12-1980	Mable, et al.	
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	A5	US- 5,057,018	10-16-1991	Bowen	
	A6	US- 5,552,213	09-03-1996	Eschner	
	A7	US- 5,733,178	03-31-1998	Obishi	
	A8	US- 2001/0030811 A1	10-18-2001	Kasai et al.	
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/MM	A11	US- 2004/0148868 A1	06-05-2004	Anderson et al.	

**Foreign Patent Documents**

Exam. Init.*	Cite No.	Foreign Patent Document Ctry. Code Number-Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	Translation (Check if yes)
	B1					
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**OTHER DOCUMENTS**

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	C2		
	C3		

\*Examiner: /Michael Marcheschi/ (04/25/2007) Date Considered:

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Substitute for form 1449A/PTO (modified)  <h2 style="text-align: center; margin: 10px 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; margin: 10px 0;">(Use as many sheets as necessary)</p> <p style="text-align: center; margin: 10px 0;">Page 1 of 1</p>	<b>Application Number</b>	10/740262
	<b>Filing Date</b>	December 18, 2003
	<b>First Named Inventor</b>	Anderson, Thomas J.
	<b>Art Unit</b>	1765
	<b>Examiner Name</b>	Michael A. Marcheschi
	<b>Attorney Case Number</b>	68716US002

U.S. Patent Documents						
Exam. Init.*	Cite No.	Document Number		Publication Date or Issue Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Doc. Number-(Kind Code if Known)				
/MM/	A1	US-	2,805,166	09-03-1957	Loffler	
	A2	US-	3,947,281	03-30-1976	Bacon	
	A3	US-	4,530,909	07-23-1985	Makishima et al.	
	A4	US-	5,104,319	04-14-1992	Evans et al.	
	A5	US-	5,693,239	12-02-1997	Wang et al.	
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	A7	US-	5,804,513	09-08-1998	Sakatani et al.	
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		Ctry. Code	Number-KindCode (if known)				
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	B2						
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	C2		
	C3		

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